

RF EXPOSURE INFO

GSM operations at the 850 MHz Band

Used limit for 850MHz fixed operation

A) 0.57mW/cm^2 @ $20\text{cm}=2.865\text{W}$ (34.57dBm) as per §1.1310 table 1B

B) 1000 W ERP for Cellular Radiotelephone Service as per §1.1307 Table 1

Max. permitted Antenna gain where no routine evaluation is required:

Ant. Gain = $34.57\text{dBm} - \text{measured cond. Power} = 34.57 - 32.59 = 1.98\text{dBi} - 2.14 = -0.16\text{dBd}$

Used limit for 850MHz mobile operation:

C) 0.57mW/cm^2 @ $20\text{cm}=2.865\text{W}$ (34.57dBm) as per §1.1310 table 1B

D) 1.5 W (31.76dBm) ERP for frequencies below 1.5 GHz as per §2.1091(c)

Max. permitted Antenna gain where no routine evaluation is required:

Ant. Gain = $31.76\text{dBm} - \text{measured cond. Power} = 31.76 - 32.59 = -0.83\text{dBd}$

GSM operations at the 1900 MHz Band

Limit for 1900MHz fixed operation:

1mW/cm^2 @ $20\text{cm}=5\text{W}$ (37dBm)

Ant. Gain = $37\text{dBm} - \text{measured cond. Power} = 37 - 29.82 = 7.18\text{dBi}$

Limit for 1900MHz mobile operation:

2W (33dBm) EIRP

Ant. Gain = $33\text{dBm} - \text{measured cond. Power} = 33 - 29.82 = 3.18\text{dBi}$

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